Scientific Method Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Biology Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

At this point, you have taken numerous science courses and should be familiar with the scientific method. The assignment is to review the Powerpoint you watched and complete the following activities.

1. **Use the numbers to put the following steps to the scientific method in order.**

**\_\_\_\_\_\_** Research a problem/question.

\_\_\_\_\_\_ Observe and record data.

­­­­\_\_\_\_\_\_ Make a hypothesis.

\_\_\_\_\_\_ Identify a problem/question.

\_\_\_\_\_\_ Develop a conclusion.

\_\_\_\_\_\_ Test the hypothesis.

1. **Match the following terms with the correct definition.**

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| \_\_\_\_\_\_1. Hypothesis | 1. A factor that is being tested or causes differences in another factor |
| \_\_\_\_\_\_ 2. Independent variable | 1. A judgement based upon the results of an experiment |
| \_\_\_\_\_\_ 3. Conclusion | 1. Factor that is measured or observed |
| \_\_\_\_\_\_ 4. Dependent variable | 1. Must be quantitative or qualitative |
| \_\_\_\_\_\_ 5. Experimental control | 1. A factor that changes in an experiment because of another factor |
| \_\_\_\_\_\_ 6. Data | 1. an educated guess about the solution to the problem |